JC10 Rec'd PCT/PTO 13 JUL 2005

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007, OMB 0651-0021

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ATTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES 701586-53653 DESIGNATED/ELECTED OFFICE (DO/EO/US) APPLICATION NO (If known see 37 CFR 1.5) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/US2004/001329 16 January 2004 (16.01.2004) 17 January 2003 (17.01.2003) TITLE OF INVENTION HAPLOTYPE ANALYSIS APPLICANT(S) FOR DO/EO/US THE TRUSTEES OF BOSTON UNIVERSITY; CANTOR, Charles R. and DING, Chunming Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. X The US has been elected (Article 31). XA copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. X A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3

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U.S. APPLICA		see 37 CFR 1.5)	PCT/US2004		ATTORNEY'S DOCKET NUMBER 701586-53653	
Exp. Mail	items or informati Cert. EV653 and Return Re	001185US;	Forms 301, 304 and 30 ard	98; PCT Coversl	neet WO 2004/0656	17; Check
The fol	lowing fees have b	een submitted			CALCULATIONS	PTO USE ONLY
	ic national fee (37	CFR 1.492(a))		\$300	\$ 300.00	
If the written opin	nination fee (37 Cl nion prepared by IS /US indicates all cl ns	\$ 200.00				
23. X Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority					\$ 100.00	
	TOTAL OF 21, 22	2 and 23 =			600.00	
-Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra Sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number)						
32 - 100 =	-68 /50 =			× \$250	\$ 0.00	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).					\$ 130.00	
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$	
Total claims	18	- 20 =	0	x \$ 50	\$ 0.00	
Independent clai	ms 4	- 3 =	1	x \$200	\$ 200.00	
MULTIPLE DEP	ENDENT CLAIM(S	(if applicable)		+ \$360	\$ 0.00	
TOTAL OF ABOVE CALCULATIONS =					\$ 930.00	
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					465.00	
				SUBTOTAL =	\$ 465.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$	0.00
TOTAL NATIONAL FEE =					\$	465.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					\$	0.00
TOTAL FEES ENCLOSED =					\$	465.00
					Amount to be refunded:	\$
					Amount to be charged	\$

Practitioner's Docket No. 701586-53653

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PCT/US2004/001329	16.01.2004 16 January 2004	17. 01. 2003 17 January 2003
International Application Number	International Filing Date	International Earliest Priority Date

TITLE OF INVENTION: HAPLOTYPE ANALYSIS

APPLICANT(S) FOR EO/DO: The Trustees of Boston University

INVENTOR(S)/APPLICANT(S) FOR US: Charles R. Cantor and Chunming Ding

VERIFIED CERTIFICATION OF EXPRESS MAILING DATE (INTERNATIONAL APPLICATION (37 C.F.R. section 1.10(c))

I declare that, on July ______, 2005 I deposited, with the United States Postal Service, in an envelope "Express Mail, Post Office to Addressee," bearing Label Number EV 653001185 US, addressed to the "MAIL STOP PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450," and having an express mail certification that I executed, the following papers:

- 1. Express Mail Certificate EV 653001185 US (1 pg.);
- 2. Transmittal Letter to the U.S. Receiving Office Concerning a Filing Under 35 U.S.C. 371 page 2 in duplicate (4 pp.);
- 3. Application Data Sheet (3 pp.);
- 4. Preliminary Amendment (7 pp.);
- 5. Form PCT/IB/308 (1 pg.);
- 6. Published PCT WO 2004/065617 A2 (coversheet, 1 pg.);
- 7. PCT/IB/Form 304 (1 pg.);
- 8. PCT/IB/Form 301 (2 pp.);
- 9. Check \$465.00; and
- 10. Return Receipt Postcard.

A copy of these papers from the file of this application is attached.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application of any patent issuing thereon.

Date: July 10 2004

inda M. Ginsberg

(type or print name of person certifying)

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a. \boxed{X} A check in the amount of \$ to cover the above fees is enclosed.								
b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.								
The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No								
fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should n be included on this form. Provide credit card information and authorization on PTO-2038.	be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not on this form. Provide credit card information and authorization on PTO-2038.							
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.								
SEND ALL CORRESPONDENCE TO: Rorall & Liseart								
Ronald I. Eisenstein								
Nixon Peabody LLP Ronald I. Eisenstein/Leena H. Karttunen								
100 Summer Street								
20 (20 / 020 / 020 /								
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